

Case No.: 39,815

FIG. 1

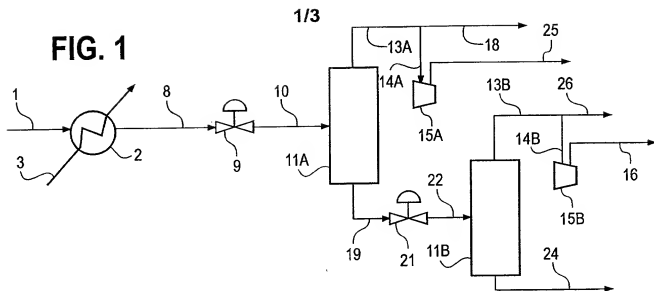


FIG. 2

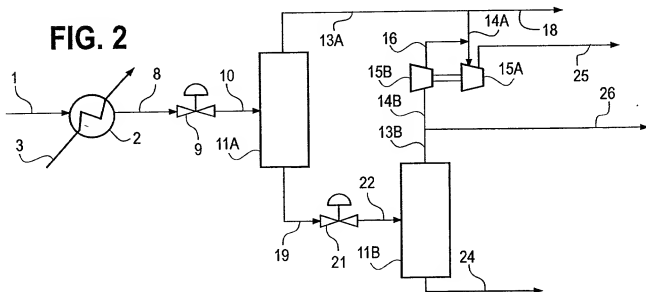
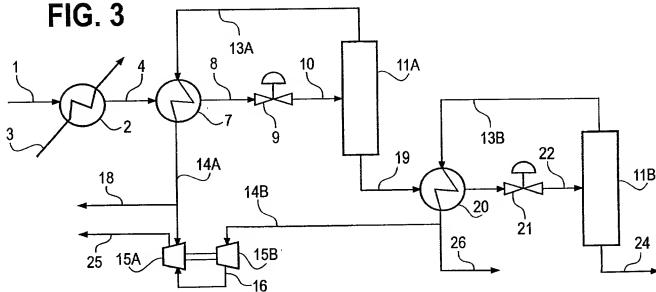


FIG. 3



The schematic diagram illustrates a three-stage refrigeration system. A common condenser 12 is connected to a common liquid line 13. The liquid line 13 branches into three parallel evaporators 14A, 14B, and 14C, each equipped with a thermostatic expansion valve 15A, 15B, and 15C respectively. The evaporators are connected to a common suction line 16, which leads to a three-stage compressor 17. The compressor 17 is driven by a motor 18. The system includes various components labeled with numbers: 1 (suction line), 2 (expansion valve), 3 (liquid line), 4 (liquid line), 5 (liquid line), 6 (expansion valve), 7 (liquid line), 8 (liquid line), 9 (check valve), 10 (liquid line), 11 (liquid line), 12 (condenser), 13 (liquid line), 14A, 14B, 14C (evaporators), 15A, 15B, 15C (expansion valves), 16 (suction line), 17 (compressor), 18 (motor), 19A, 19B, 19C (check valves), 20 (liquid line), 21A, 21B, 21C (expansion valves), 22 (liquid line), 23 (expansion valve), 24 (liquid line), 25 (liquid line), 26 (liquid line), 27 (liquid line), 28 (liquid line), 29 (liquid line), 30 (liquid line), 31 (liquid line), 32 (liquid line), 33 (liquid line), 34 (liquid line), 35 (liquid line), 36 (liquid line), 37 (liquid line), 38 (liquid line), 39 (liquid line), 40 (liquid line), 41 (liquid line), 42 (liquid line), 43 (liquid line), 44 (liquid line), 45 (liquid line), 46 (liquid line), 47 (liquid line), 48 (liquid line), 49 (liquid line), 50 (liquid line), 51 (liquid line), 52 (liquid line), 53 (liquid line), 54 (liquid line), 55 (liquid line), 56 (liquid line), 57 (liquid line), 58 (liquid line), 59 (liquid line), 60 (liquid line), 61 (liquid line), 62 (liquid line), 63 (liquid line), 64 (liquid line), 65 (liquid line), 66 (liquid line), 67 (liquid line), 68 (liquid line), 69 (liquid line), 70 (liquid line), 71 (liquid line), 72 (liquid line), 73 (liquid line), 74 (liquid line), 75 (liquid line), 76 (liquid line), 77 (liquid line), 78 (liquid line), 79 (liquid line), 80 (liquid line), 81 (liquid line), 82 (liquid line), 83 (liquid line), 84 (liquid line), 85 (liquid line), 86 (liquid line), 87 (liquid line), 88 (liquid line), 89 (liquid line), 90 (liquid line), 91 (liquid line), 92 (liquid line), 93 (liquid line), 94 (liquid line), 95 (liquid line), 96 (liquid line), 97 (liquid line), 98 (liquid line), 99 (liquid line), 100 (liquid line).

PRODUCTS

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FIG. 6

